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(54) Title: MULTILAYER POLYMERIC/INORGANIC OXIDE STRUCTURE FOR ENHANCED GAS OR VAPOR BARRIER

(57) Abstract: The coated multilayer structure comprising a polymeric base layer, an inorganic oxide gas barrier layer on a surface on the polymeric base layer, and a top coat on the inorganic oxide gas barrier layer, the top coat comprising a soluble compound capable of reducing the permeability of the multilayer structure to gas or vapor. A method for enhancing the gas or vapor barrier properties of a multilayer polymeric/inorganic oxide structure is also disclosed. According to one embodiment, SiO_x coated polyethylene terephthalate containers are coated with a gas or vapor barrier enhancing top coat.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08J7/04 B32B27/36 B32B15/08 B65D65/40 B65D85/72
B65D75/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08J B32B B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 246 795 A (BOWATER PACKAGING LTD) 12 February 1992 (1992-02-12)	1-7, 10, 11, 13-27, 30, 31, 33-40
Y	claims 1-4, 9-11 page 1, line 3 - line 14 page 5, line 32 - page 6, line 11 ---	8, 9, 28, 29
Y	EP 0 721 977 A (ABBEY RES & DEV LTD) 17 July 1996 (1996-07-17) claim 1 --- -/--	8, 9, 28, 29



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	DE 41 13 221 A (LEYBOLD AG) 29 October 1992 (1992-10-29) claim 1 ---	1
A	EP 0 113 555 A (BOC GROUP PLC) 18 July 1984 (1984-07-18) claim 1 -----	1

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